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SECURITY INFORMATION

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German Democratic Republic

COLLABORATION BETWEEN BITTERFELD ELECTROCHEMICAL COMBINE AND HENNIGSDORF STEEL MILL
(German; 1 p; 19 Nov 51)

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This document consists of a 1-page photostatic copy of a typewritten report on the collaboration between the Bitterfeld Electrochemical Combine and the Hennigsdorf Steel Mill.

The metallurgical divisions of these two plants have been cooperating since 1950, under Dr Kuentscher, with Bitterfeld producing ferrotitanium for Hennigsdorf, where it is used for the refining of steel and cast iron. In the future, Bitterfeld is to receive about 16% of the semi-finished products made in Hennigsdorf for use in making special products, since the facilities of the Hennigsdorf mills are inadequate for this type of processing. With the use of Hennigsdorf semi-finished products, Bitterfeld has made hard-facing alloys for the following purposes:

- 1) Low-alloy chromium steel hard-facing alloys for tracks, crossings for switches, bars, joint bolts and sideways for locomotives,
- 2) Wear-resistant chromium steel hard-facing alloys for stampers, drawing blocks, die plates, stamping and cutting tools, motor escape valves, valve seats, shearing knives,
- 3) Wear-resistant manganese-hard steel hard-facing alloys for crushing machine parts, beaters, tracks, switch installations (heel pieces, crosspieces, crossings),
- 4) High-speed steel hard-facing alloys for hot pressing and drawing dies, stamping and cutting tools, lathe tools, and cutters.

Bitterfeld also supplies high-alloy steel castings made of austenitic manganese steel with a manganese content of about 12-14% manganese; austenitic manganese steel containing about 12% manganese and 3% nickel; chromium-wolfram-nickel steel with about 12% chromium, 2% wolfram, and 2% nickel content; chromium castings containing 1-30% chromium.

From these high-quality steel casting alloys are made machine parts for coal or coke processing plants for gasworks, iron works, and briquetting plants; for the cement industry wedge grips for crushing machines, beaters, grate bars, grinding plates, etc. are supplied, as well as acid-resistant parts for pumps for the chemical industry.

These alloys have been furnished for 8 months, with a total supply of 124 tons. The peak was reached in September 1951 with 35.5 tons. During the last 5 months Bitterfeld has furnished a total of 220 tons of semi-finished products. September 1951 was the peak month, with an output of 63 tons.

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